

James J. Hirsch & Associates

DOE-2.1E Installation and Execution Instructions

The install procedure creates/replaces the C:\DOE21E directory and sub-directories. If you want to place DOE2 on another disk partition (or in another directory) you will need to follow the directions below.

PROGRAM INSTALLATION

Archives names:

D21NTXXX.exe is the version of DOE-2.1E-XXX for use with Windows 95/NT/2000/XP only (runs as a "console" application and thus looks similar to a DOS application)

D21E-XXX.exe is the version of DOE-2.1E-XXX for use with DOS or a DOS box under windows 3.1 or 95/NT/2000/XP

In Windows using winzip:

Open the archive of choice listed above and extract its entire contents into the root directory of c: checking the boxes to "use folder names" and "overwrite" existing files so that the DOE21E directory structure is recreated.

In DOS or a DOS box under windows 3.1, 95, NT, 2000 or XP with pkzip/pkunzip installed:

Move to the root of your c: hard drive (c: <enter> followed by cd \ <enter>)

Extract the proper DOE-2.1E archive by executing it as follows

```
Pkunzip -d -o PATH\archive.zip
```

where:

PATH is the path to where you placed a downloaded archive on your hard drive or CDROM:\DOE21E\ARCHIVES is installing from a DOE2/eQUEST/PowerDOE CD (and CDROM is the drive letter of your CD ROM with PowerDOE CD inserted)

and

archive is the archive name

CHANGING THE INSTALLATION DIRECTORY

- 1) Extract the DOE-2 archive to your new choice of drive and main directory
- 2) Change the samp3.inp and samp7.inp files to correct the ##fileprefix macros so the samples will work
- 3) Change the .bat files that execute the program:
Method 1 - using DOE21E and DOEBDL procedures - in doe2env.bat, doe21e.bat, and doebdl.bat change the doedir environment variable to the new drive and base directory name.
Method 2 - using RUN21E and RUNBDL procedures - in run21e.bat, runbdl.bat, and all the other run21e???.bat files change the doedir environment variable and also change the copy of the weather file to have the new drive and base directory name.
- 4) In the weather\util directory, edit all the .bat file to use the correct new drive and base directory name.

OTHER CONSIDERATIONS

- A copy of the DOESCAN program and doc for use in examining and printing output files, is included.
- Look in the WEATHER\UTIL directory and you will find some useful utilities: cvtwth converts between several formats; wthfmt2 and fmtwth2 allows moving weather files between machine types - creates and packs ASCII files.

PROGRAM UPDATES AND BUGS

We make program updates available via the web; you can visit the FTP site to check for new versions. If you require CD to be shipped there is a service charge of \$55 for each CD. **If you find bugs or have problems with a run it is not easy for us to help unless you send us a zip archive with the input file and indicate what weather file you are using as well as provide a description of the problem.**

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PROGRAM EXECUTION

Method 1 (best method) - using the DOE21E and DOEBDL procedure files

First you must enter a DOS box using the W95-DOS (for Win 95/98) or Wnt-DOS (for Win NT/2000/XP) shortcut in the DOE21E directory

To run BDL & simulation from any directory type (assumes the DOE21E directory is in your PATH, otherwise you must specify the full path to the DOE21E procedure file)

```
DOE21E version input weather
or DOE21E version input weather SAVE-FILES tfiles
or DOE21E version input weather NOSAVE-FILES tfiles
```

version DOE-2.1E version you want to run as follows:

exe - the standard JJH release for DOS and Win31 systems

exent - the standard JJH release for Win95/98/NT/2000/XP systems

exent.lbl - the standard "old" LBNL/JJH release for Win95/98/NT/2000/XP systems

input the BDL input file WITHOUT its .inp extension, if this file is not in the current directory then the full path to the file must be specified (using the windows icon always requires use of the full pathname)

weather packed weather file WITHOUT its .bin extension (use TRY\, WYEC\, or TMY\ prefix as needed for various file types); these files must be in c:\doe21e\weather\packed (or subdir's)

SAVE-FILES save or use intermediate results & report files; prevents the deletion of the files following the program execution. (don't forget the SAVE-FILES command in BDL also)

tfiles base file name to be used for the intermediate results files. Some files are used when doing a SAVE-FILES run: LOADS results are on tfiles.ldo, SYSTEMS on tfiles.syo, PLANT on tfiles.plo, all use the design file (including ECONOMICS) on tfiles.dsn Default is the input file name. (don't forget the SAVE-FILES command in BDL also)

From any directory type (assumes the DOE21E directory is in your PATH) to only run BDL

```
DOEBDL version input
or DOEBDL version input SAVE-FILES
or DOEBDL version input NO-LIBRARY
```

The parameters version, input, and SAVE-FILES are as described above. The NO-LIBRARY prevents the use of the standard BDL LIB.

The run of BDL or the simulation creates the following files:

input.bdl	the BDL output	input.sim	the simulation output
input.log	the BDL and simulation log file		

SAVE-FILE causes the following to be left in the input file directory (* means can use tfiles as base name):

input.022 .080	BDL macro output files	input.ldo*	LOADS results for SYSTEMS
for???	any function files ??? is unit #	input.syo*	SYSTEMS results for PLANT
input.lib	BDL created USRLIB	input.plo*	PLANT results for ECONOMICS
input.ctr .std	BDL/Simulation control/data files	input.dsn*	LOADS, SYSTEMS, PLANT design data
input.?in	the hourly report OPTION=BINARY-FILE for LOADS (l), SYSTEMS (s), and PLANT (p)		
input.?rp	the summary and verification report files for LOADS (l), SYSTEMS (s), and PLANT (p)		

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Method 2 - using the RUN21E and RUNBDL procedure files

NOTE - IF YOU HAVE USED METHOD 1 YOU MUST EXIT THE DOS BOX AND CREATE A NEW DOS BOX (not using the supplied shortcut) BEFORE USING THIS METHOD

To run BDL & simulation from any directory type (assumes the DOE21E directory is in your PATH)

```
c:\doe21E\run21E version input weather
```

All parameters are the same as in method 1, except that that the input file **MUST** be located in the current directory (the working/startup directory must be corrected in the windows setup -use the pif editor to change the two .pif files and the properties item under the file menu). The execution procedure file creates a subdirectory to run the program within. The program output and run log are placed back in the starting directory with a .out and .log extensions. The RUNBDL procedure works like the DOEBDL procedure described above. There are also procedure files for saving intermediate files (see the run21e?.bat files in the DOE21E directory).